

<p style="text-align: center;">DISTANCE LEARNING INFRARED INSPECTIONS FOR HOME & BUILDING INSPECTORS</p>

1. Basic Infrared Theory

- Heat transfer
- Electromagnetic spectrum
- Emittance, reflectance, and transmittance
- Atmospheric transmission
- IR wavebands, imaging systems, and lens materials

2. Infrared Equipment

- Selection criteria
- Range and level settings
- Image and data recording
- Self-directed learning activities for hands-on use

3. Infrared Building Inspections

- Theory and component construction
- Insulation and material characteristics
- Inspection techniques
 - interior / exterior
- Weather variables and influences
- Required site conditions
 - creating sufficient Delta T
- Thermal signatures
 - missing & damaged insulation
 - air leakage
 - latent moisture
 - pest damage
- Mold detection
- Inspection of building subsystems
- Other tools
- Verification of data
- Data recording
- Standards for inspections

4. Infrared Roof Inspections

- Theory and component construction
- Insulation and material characteristics
- Inspection techniques
 - ground based / aerial
- Weather variables and influences
- Required site conditions
- Safety practices
- Thermal signatures of latent moisture
- Verification of data
- Data recording
- Alternate methods of moisture detection
- Standards for inspections

5. Infrared Electrical System Inspections

- Theory and thermal signatures of problems
- Seven types of detectable defects
- Conducting an inspection
- Safety practices
- Confirming exceptions
- Data recording
- Standards for inspections

6. Marketing

- How to start / expand an IR consulting business
- Identifying potential markets
- Advertising your services
- Locating qualified prospects
- Attracting repeat business
- Establishing fee structures

